



PATENT APPLICATION

IN THE U.S. PATENT AND TRADEMARK OFFICE

1636

Applicant(s): Yang-Suk KIM et al
Title: SYSTEM FOR ANALYZING BIO CHIPS USING GENE ONTOLOGY
AND A METHOD THEREOF

Serial No.: 10/579 504 Group: 1636
Confirmation No.: 6564
Filed: May 15, 2006 Examiner: Unknown
International Application No.: PCT/KR2004/002117
International Filing Date: August 23, 2004
Atty. Docket No.: 5740.P0001US

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

FIRST CLASS MAILING CERTIFICATE

Sir:

I hereby certify that this correspondence is being deposited with the United States Postal Service under 37 CFR 1.8 as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on July 24, 2006.


David G. Boutell

DGB/DJW/jas

FLYNN, THIEL, BOUTELL	Dale H. Thiel	Reg. No. 24 323
& TANIS, P.C.	David G. Boutell	Reg. No. 25 072
2026 Rambling Road	Terryence F. Chapman	Reg. No. 32 549
Kalamazoo, MI 49008-1631	Mark L. Maki	Reg. No. 36 589
Phone: (269) 381-1156	Liane L. Churney	Reg. No. 40 694
Fax: (269) 381-5465	Brian R. Tumm	Reg. No. 36 328
	Steven R. Thiel	Reg. No. 53 685
	Donald J. Wallace	Reg. No. 43 977
	Sidney B. Williams, Jr.	Reg. No. 24 949

Correspondence: Request for Corrected Filing Receipt including
enclosures listed thereon

190.05/05



PATENT APPLICATION

IN THE U.S. PATENT AND TRADEMARK OFFICE

July 21, 2006

Applicant(s): Yang-Suk KIM et al

For: SYSTEM FOR ANALYZING BIO CHIPS USING GENE ONTOLOGY AND
A METHOD THEREOF

Serial No.: 10/579 504

Group: 1636

Confirmation No.: 6564

Filed: May 15, 2006

Examiner: Unknown

International Application No.: PCT/KR2004/002117

International Filing Date: August 23, 2004

Atty. Docket No.: 5740.P0001US

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CORRECTED FILING RECEIPT

Sir:

The Filing Receipt contains error(s).

Please see the attached red-corrected photocopy of the Filing Receipt and the high-lighted portions of the attached photocopy of the Declaration as filed with the Specification on May 15, 2006.

Respectfully submitted,


David G. Boutell

DGB/DJW/jas

FLYNN, THIEL, BOUTELL
& TANIS, P.C.
2026 Rambling Road
Kalamazoo, MI 49008-1631
Phone: (269) 381-1156
Fax: (269) 381-5465

Dale H. Thiel
David G. Boutell
Terryence F. Chapman
Mark L. Maki
Liane L. Churney
Brian R. Tumm
Steven R. Thiel
Donald J. Wallace
Sidney B. Williams, Jr.

Reg. No. 24 323
Reg. No. 25 072
Reg. No. 32 549
Reg. No. 36 589
Reg. No. 40 694
Reg. No. 36 328
Reg. No. 53 685
Reg. No. 43 977
Reg. No. 24 949

Encl: Red-Corrected photocopy of Filing Receipt
Copy of Declaration submitted May 15, 2006
Postal Card



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 www.uspto.gov

APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/579,504	05/15/2006	1636	515	5740.P0001US	7	18	3

23474

FLYNN THIEL BOUTELL & TANIS, P.C.
 2026 RAMBLING ROAD
 KALAMAZOO, MI 49008-1631

DHT _____ DGB _____ RJT _____
 TFC _____ MLM _____ LLC _____
 BRT _____ SRT _____ SBW _____

CONFIRMATION NO. 6564

FILING RECEIPT



OC000000019549670

JUL 20 2006

DIW _____ FIP _____ PMG _____
 GMS _____ CMC _____ TLH _____
 FILE _____

Date Mailed: 07/11/2006

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).**

Applicant(s)

→ Gyeongsangbuk-do
 Yang-Suk Kim, Gyeonggi-do, KOREA, REPUBLIC OF;
 Jung-Uk Hur, ~~Mungyeong Si~~ KOREA, REPUBLIC OF;
 Sung-Geun Lee, Busan, KOREA, REPUBLIC OF;

Power of Attorney: The patent practitioners associated with Customer Number 23474.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/KR04/02117 08/23/2004

Foreign Applications

REPUBLIC OF KOREA 10-2003-0060528 08/30/2003

If Required, Foreign Filing License Granted: 07/10/2006

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US10/579,504**

Projected Publication Date: 10/19/2006

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

System for analyzing bio chips using gene ontology and a method thereof

Preliminary Class

435

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

**LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof

unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Declaration and Power of Attorney for Patent Application

특허 출원 관련 선언 및 위임권

Korean Language Declaration

아래 지명된 발명자로서, 본인은 하기 사항을 선언합니다.

본인의 거주지, 우송 주소 및 국적은 본연의 상영 아래에 기재된 것과
동일합니다.본인은 하기 명사된 발명에 대한 특허를 청구하는 주제의 최초 원역 단독
발명자이거나 (아래에 한 이름만이 기재된 경우) 또는 최초 원역 공동
발명자임을 (아래에 여러 이름이 기재된 경우) 확인합니다.

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated
next to my name.I believe I am the original, first and sole inventor (if only one
name is listed below) or an original, first and joint inventor (if
plural names are listed below) of the subject matter which is
claimed and for which a patent is sought on the invention
entitled:SYSTEM FOR ANALYZING RTO CHIPS USING
GENE ONTOLOGY AND A METHOD THEREOF다음 난이 체크되어 있지 않으면 본 발명의 명세서가 여기에
첨부됩니다.☐ 대한민국 출원번호 또는 PCT 국제 출원번호는
_____로
_____일에 출원되었고
_____일에 개정되었음
(해당 경우).the specification of which is attached hereto unless the
following box is checked:☒ was filed on August 23, 2004
as United States Application Number or PCT
International Application Number
PCT/KR2004/002117 and was amended on
_____ (if applicable).본인은 상기 개정에 의해 수정된 상기 명세서는 물론 특허 청구의 내용을
검토했으며 이해했음을 확인합니다.I hereby state that I have reviewed and understand the contents
of the above identified specification, including the claims, as
amended by any amendment referred to above.본인은 연방 규정 코드인 제37조의 제1.56항에 의거하여 특허 자격에
관한 자료 정보를 공개할 의무를 인정합니다.I acknowledge the duty to disclose information which is material
to patentability as defined in Title 37, Code of Federal
Regulations, § 1.56.This collection of information is required by 37 CFR 1.55. The information is required to obtain or retain a benefit by the public which is to
file (and by the USPTO to process) an application. Confidentiality is governed by 37 U.S.C. 122 and 37 CFR 1.14. This collection is
estimated to take 34 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO.
Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or
suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department
of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner
for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Korean Language Declaration

본인은 외국인 특허 출원(등)이나 발명자의 증명서 관련 경우에는 대한민국 코드인 제35장의 제17.9(a)-(d)항이나 제365(b)항에 의거하여 또는 대한민국 이외에 적어도 한 국가를 지칭하는 PCT 국제 출원의 경우에는 제365(a)항에 의거하여 여기 명시된 특허 출원의 외국 우선권을 주장하며, 외국인 특허 출원, 발명자 증명서 또는 우선권이 주장되는 출원인 이전에 제공된 PCT 국제 출원도 또한 여기에 해당함을 체크함으로써 확인하였습니다.

I hereby claim foreign priority under Title 35, United States Code, § 118(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Priority Not Claimed
우선권 주장 없음

10-2003-0060528

(Number)
(번호)

Rep. of Korea

(Country)
(국가)

30 August 2003

(Day/Month/Year Filed)
(출원일자 일/월/년)

□

(Number)
(번호)

(Country)
(국가)

(Day/Month/Year Filed)
(출원일자 일/월/년)

□

본인은 대한민국 코드인 제35장 제119항(c)에 명시된 바와 같이 자기 대한민국 가출원에 관련된 출원을 요구합니다.

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below.

(Application No.)
(출원 번호)

(Filing Date)
(출원일자)

(Application No.)
(출원 번호)

(Filing Date)
(출원일자)

본인은 대한민국 코드인 제35장의 미국인 출원(등) 관련 제120항에 명시된 바와 같이 또는 대한민국을 지칭하는 PCT 국제 출원 관련 제365(c)항에 명시된 바와 같이 자기 출원의 출원을 요구합니다. 이 출원서에 있는 각 특허 청구의 내용이 대한민국 코드인 제35장 제112항의 첫번째 절에서 명시된 바와 같이 종전의 미국 또는 PCT 국제 출원에 참조되지 않았으면 본인은 연방 규정 코드인 제37장 제1.56항에 명시된 바와 같이 종전 출원일자와 이 출원서의 국내 또는 PCT 국제 출원일자 사이에 특허 자격에 대한 자료 정보를 증거할 의무를 인정합니다.

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s), or § 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which becomes available between the filing date of the prior application and the national or PCT international filing date of this application.

(Application No.)
(출원 번호)

(Filing Date)
(출원일자)

(Status) (특허, 출원, 포기)
(현황) (특허, 출원, 포기)

(Application No.)
(출원 번호)

(Filing Date)
(출원일자)

(Status) (특허, 출원, 포기)
(현황) (특허, 출원, 포기)

본인이 아는 한도 내에서 여기에 제공된 모든 내용이 사실이고, 제공된 정보나 소신이 모두 사실임을 확인하며, 더 나아가 대한민국 코드 제18장의 제1001절에 명시된 바와 같이 고의의 허위 진술 및 이와 유사한 행위는 형금이나 투옥으로 처분 받거나 벌금과 감옥형을 모두 받을 수 있고 어떠한 고의의 허위 진술은 특허 출원이나 후에 발급된 특허의 효력을 위태롭게 함을 인지하면서 여기에 진술함을 선언합니다.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application of any patent issued thereon.

Korean Language Declaration

POWER OF ATTORNEY

I hereby appoint the Practitioners associated with the Customer Number: 23474 as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize the correspondence address associated with the above-mentioned Customer Number.

단독 또는 첫번째 발명자의 성명	Full name of sole or first inventor	Yang-Suk KIM
발명자의 서명	인자	Inventor's signature <i>[Signature]</i> Date 05/03/06
거주지	Residence	Gyeonggi-do, Rep. of Korea
국적	Citizenship	Republic of Korea
우송 주소	Post Office Address	Hyundai-Townville 506, 848-1 Janghang-dong, Ilsan-gu Goyang-si, Gyeonggi-do 411-380, Republic of Korea
만약 있으면 두번째 공동 발명자의 이름	Full name of second joint inventor, if any	Jung-Uk HUR
두번째 발명자의 서명	인자	Second inventor's signature <i>[Signature]</i> Date May 03, 2006
거주지	Residence	Gyeongsangbuk-do, Rep. of Korea
국적	Citizenship	Republic of Korea
우송 주소	Post Office Address	79-6 Jeomchon-dong, Mungyeong-si, Gyeongsangbuk-do 745-886, Rep. of Korea

(세번째 그리고 이후의 공동 발명자들에 대한 유사한 정보와 그들의 서명을 제공하십시오.)

(Supply information and signature for third and subsequent joint inventors.)

Korean Language Declaration

POWER OF ATTORNEY

I hereby appoint the Practitioners associated with the Customer Number: 23474 as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize the correspondence address associated with the above-mentioned Customer Number.

단독 또는 첫번째 발명자의 성명	Full name of 3rd Inventor Sung-Geun LEE
발명자의 서명	Inventor's signature <i>[Signature]</i> Date May 04, 2006
거주지	Residence Busan, Rep. of Korea
국적	Citizenship Republic of Korea
우송 주소	Post Office Address LG Metrocity Apt. 104-1504, Yongho-dong,
	Nam-gu, Busan 608-090, Republic of Korea
만약 있으면 두번째 공동 발명자의 이름	Full name of 4th joint inventor, if any
두번째 발명자의 서명	Second inventor's signature
일차	Date
거주지	Residence
국적	Citizenship
우송 주소	Post Office Address

(세번째 그리고 이후의 공동 발명자들에 대한 유사한 정보와 그들의 서명을 제공함 것.)

(Supply information and signature for third and subsequent joint inventors.)